



FIG.1

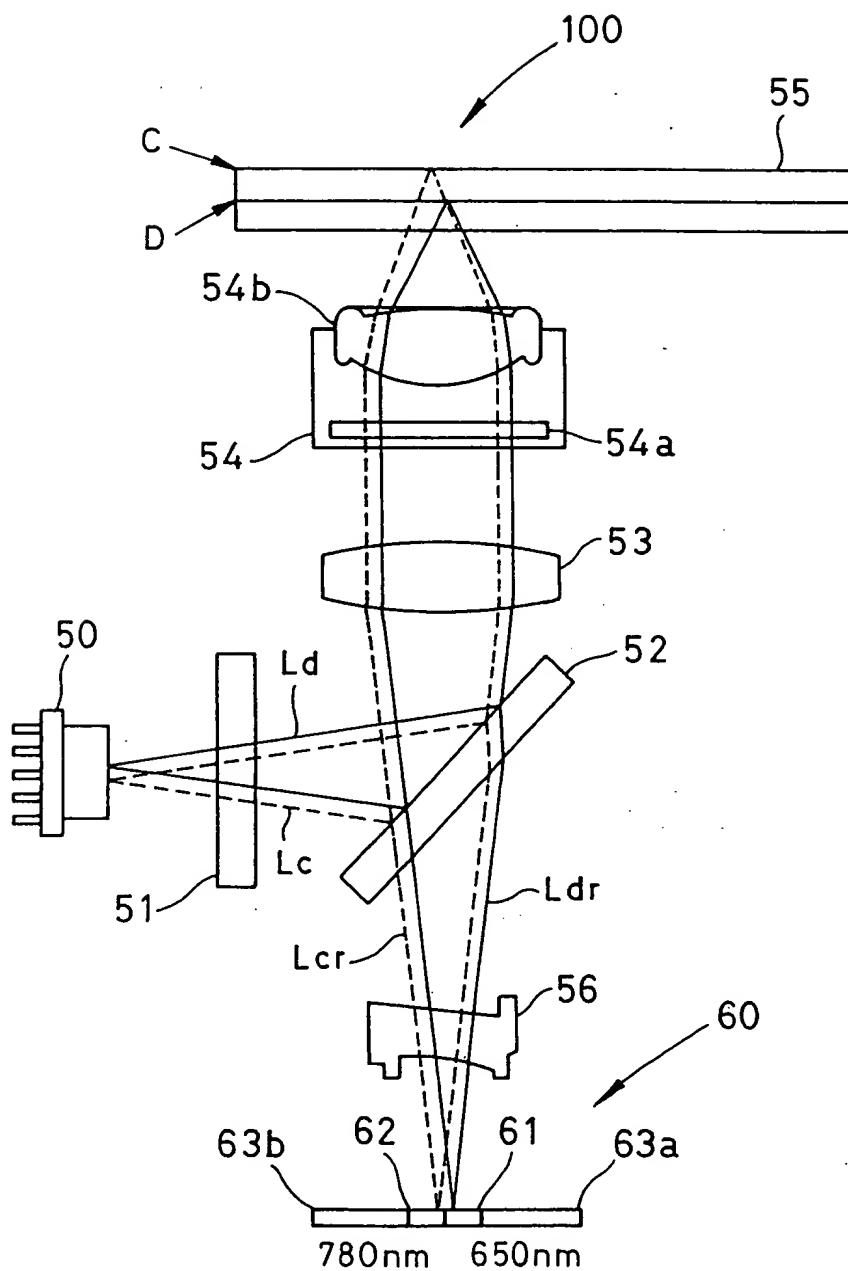
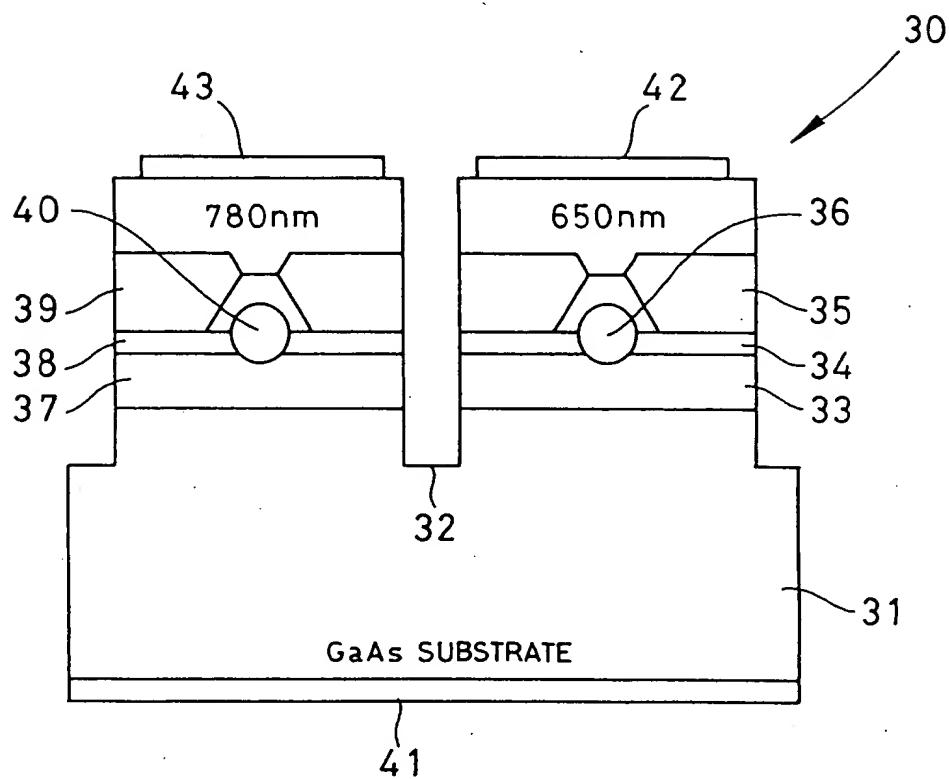




FIG. 2



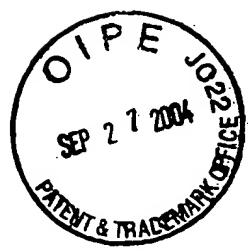


FIG. 3

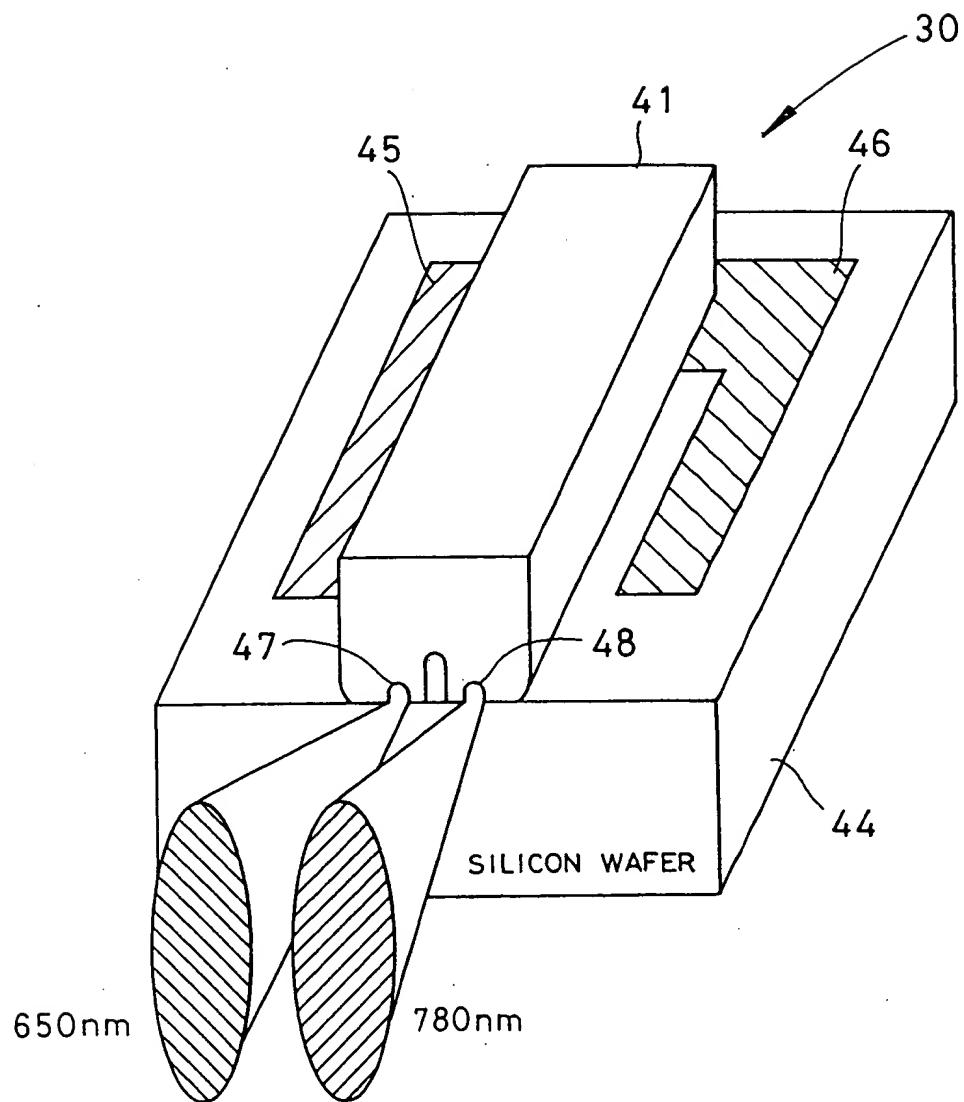




FIG. 4

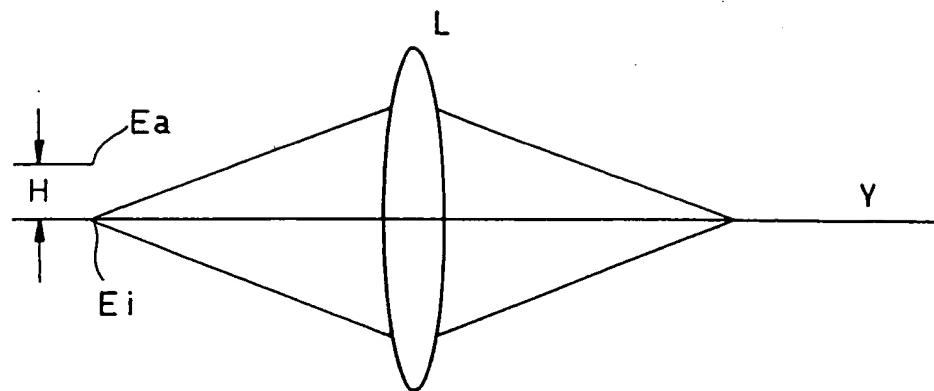
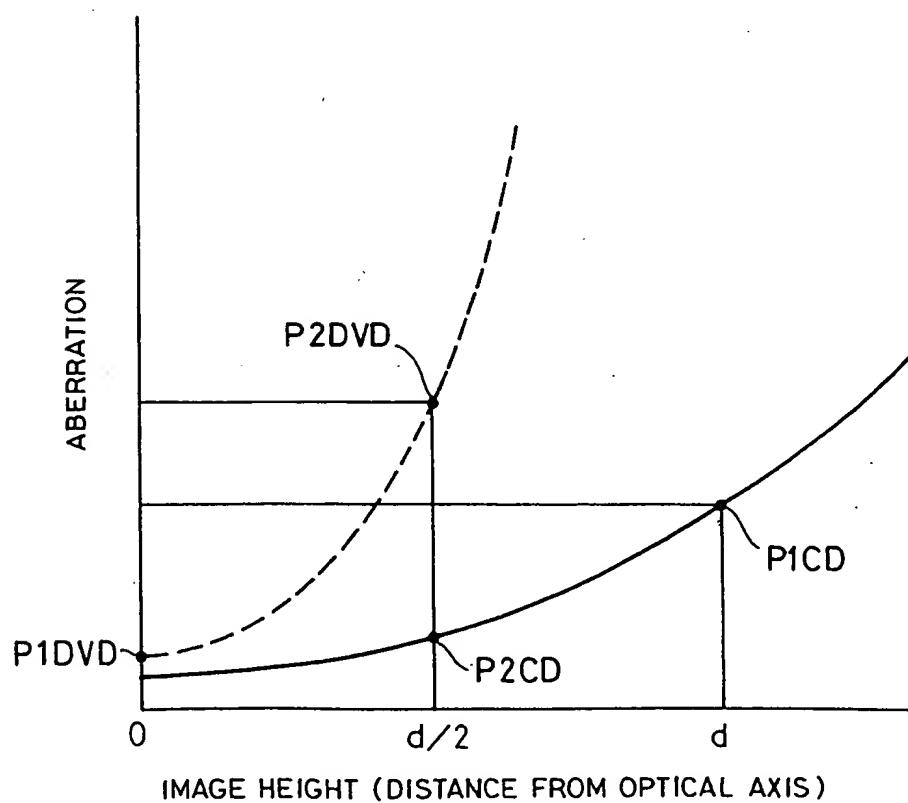


FIG. 5



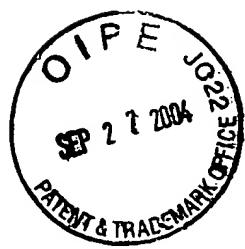


FIG. 6

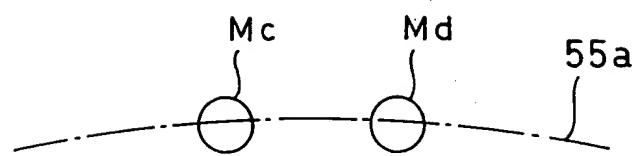


FIG. 7

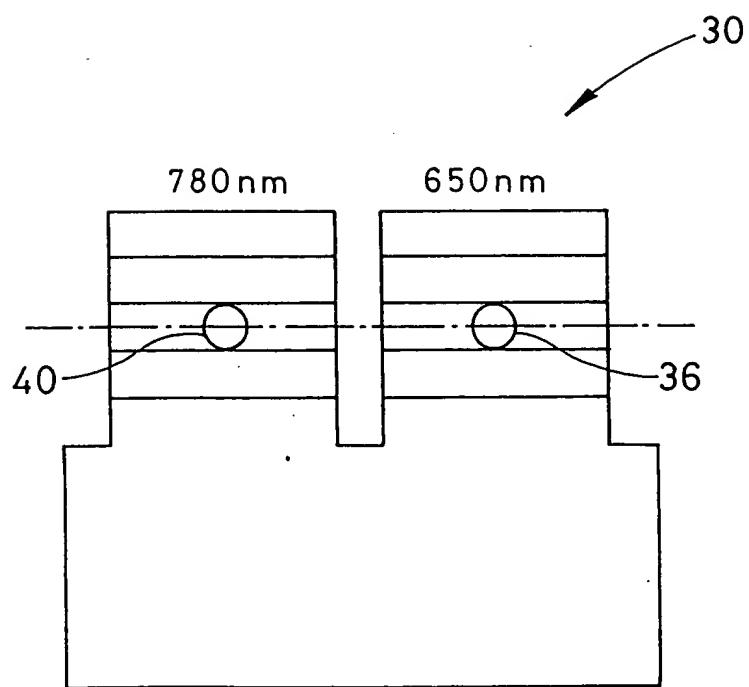




FIG. 8

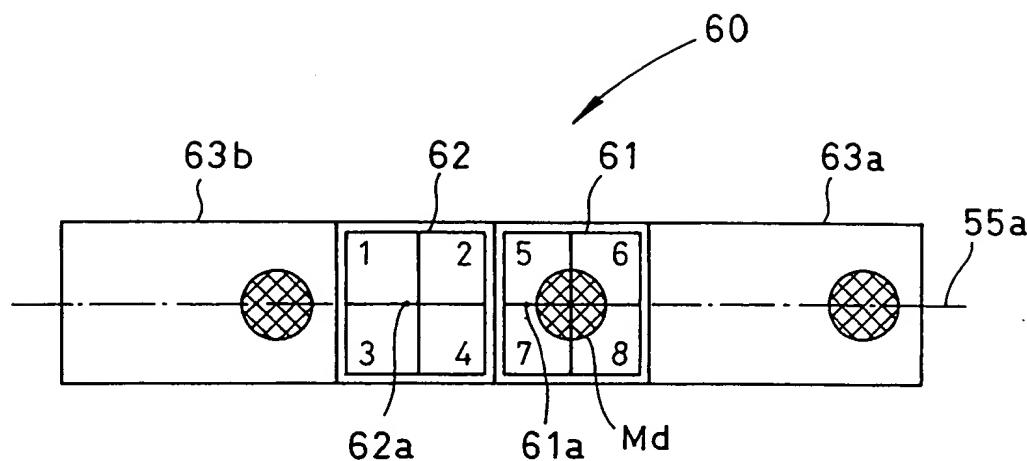
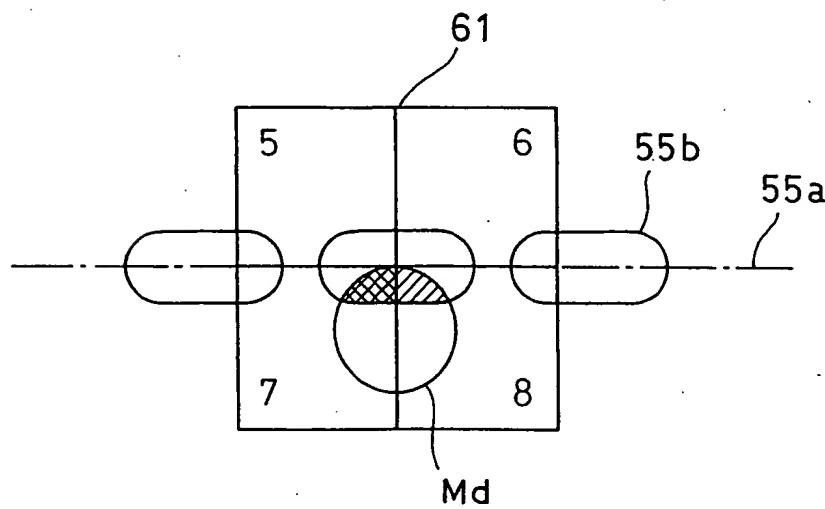


FIG. 9



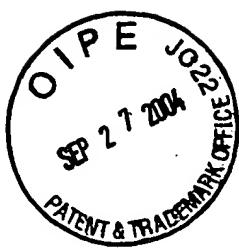


FIG.10

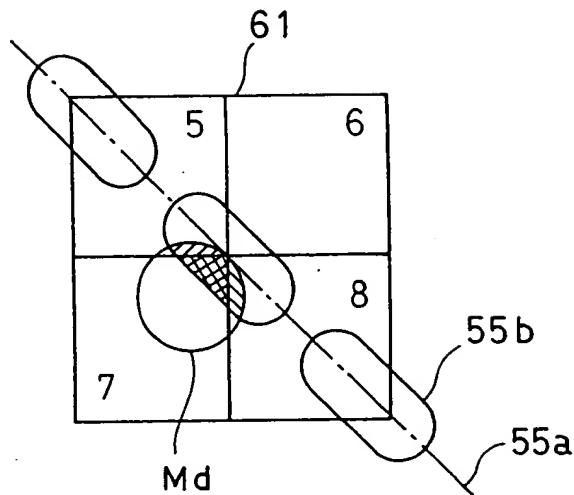


FIG.11

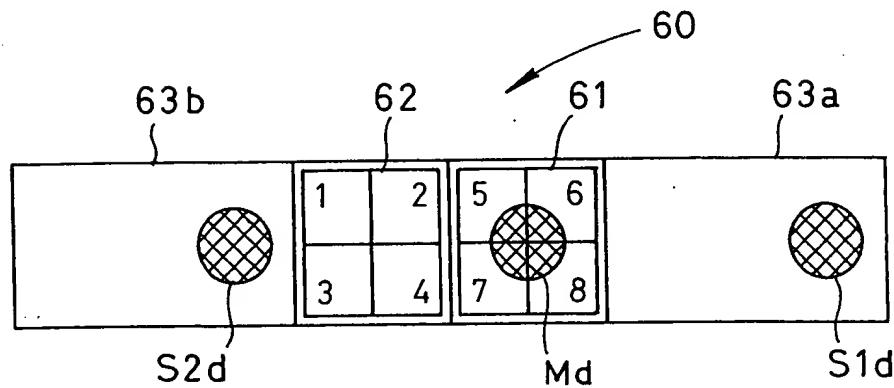


FIG.12

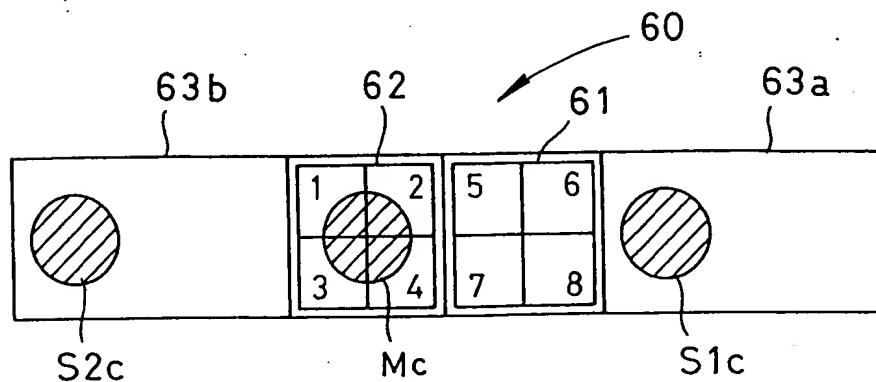
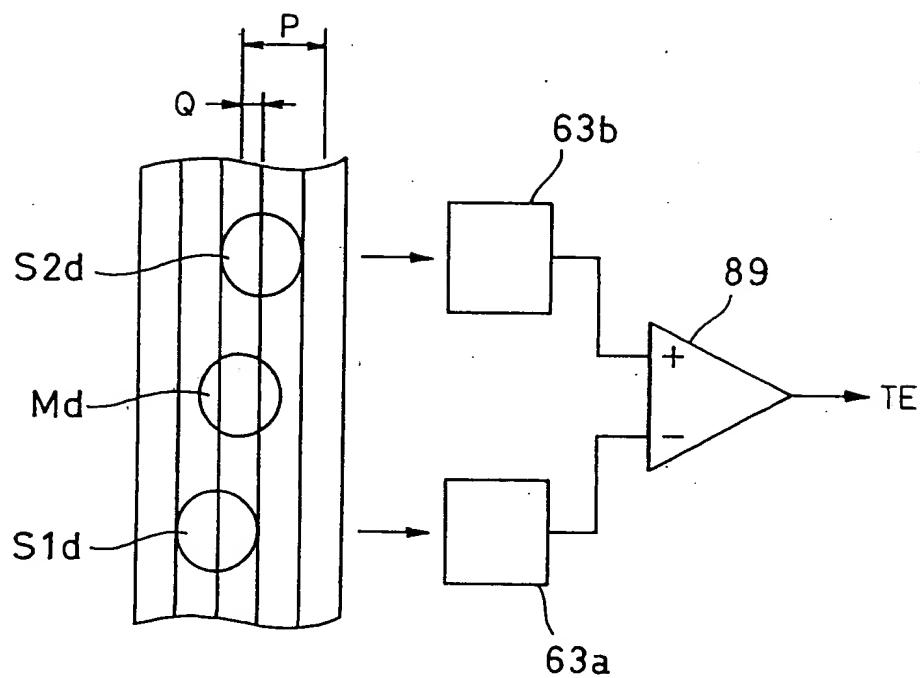


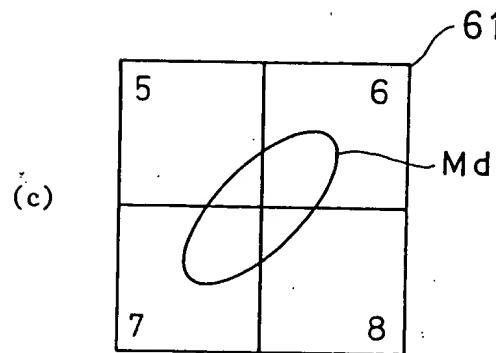
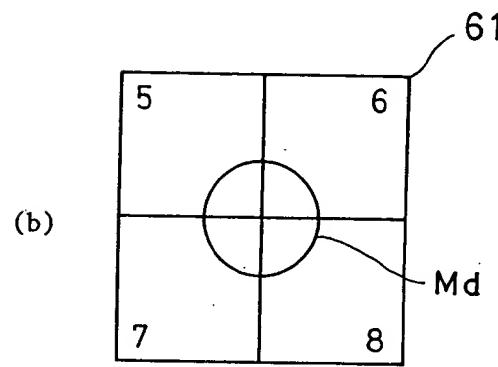
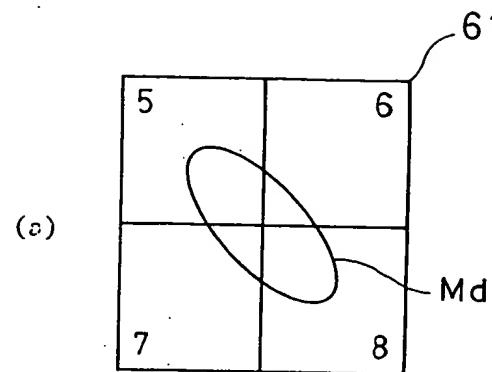


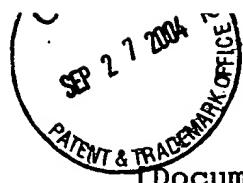
FIG.13



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FIG.14





[Document Name] ABSTRACT

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Technology Ctr., U.S. P.T.O.

[Abstract]

[Object] It is an object of the present invention to provide an optical pickup apparatus which is capable of supporting multiple 5 wavelengths in a reduced size without using a combined prism.

[Measure taken to attain the Object]

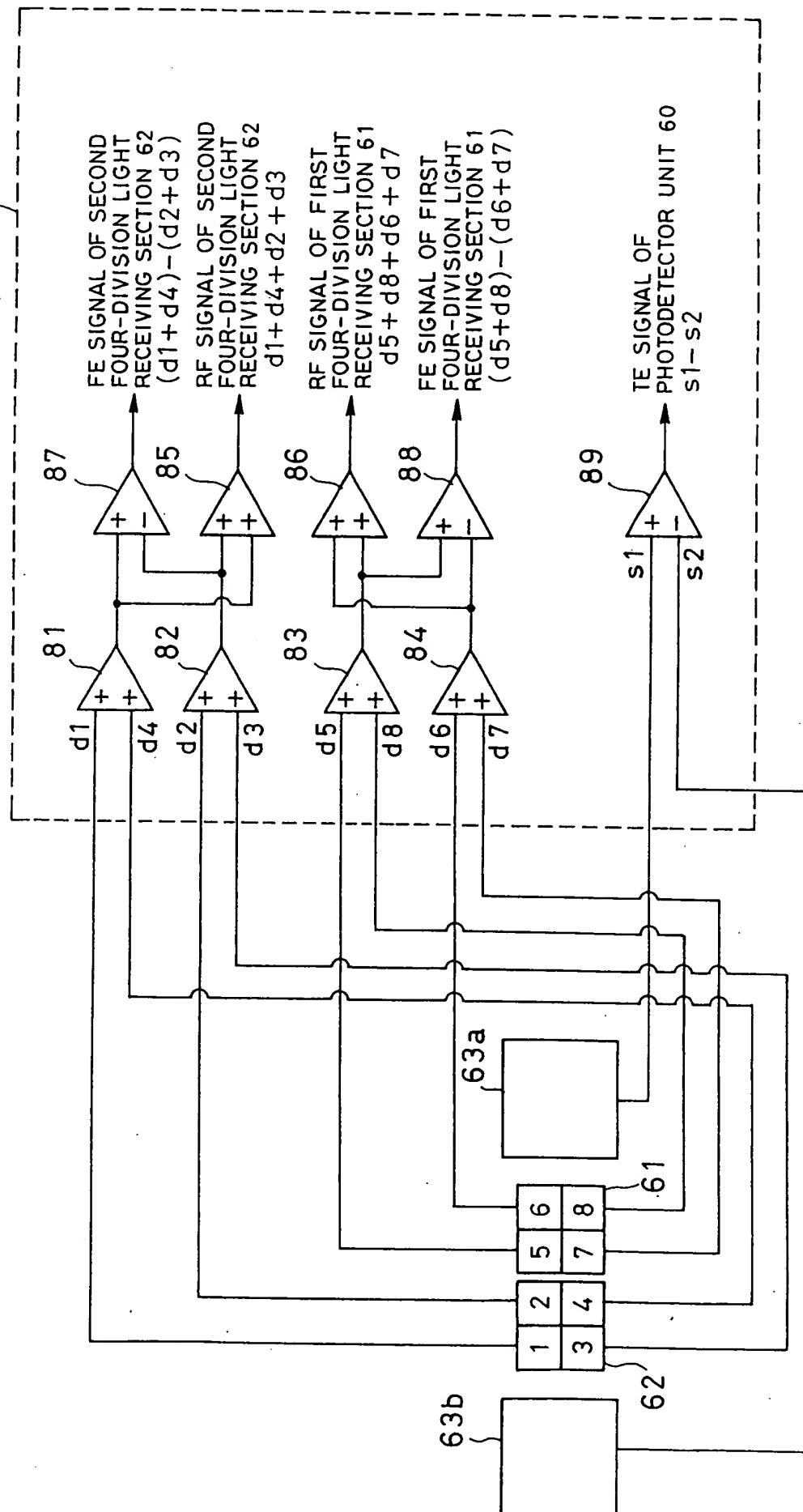
An apparatus includes light emitting means having a plurality of integrated light emitting portions for emitting laser beams of different wavelengths, the light emitting means being adapted to 10 selectively emit one of the laser beams of different wavelengths; photodetecting means for detecting the laser beam; and an optical system for directing the laser beam emitted from the light emitting means to the disc, and for directing the laser beam reflected by the disc to the photodetecting means, wherein the light emitting 15 means is positioned such that a straight line connecting respective light emitting points of the plurality of light emitting portions is coincident with a tangential line of a track on a disc to be reproduced.

[Selected Drawing] Fig.1



FIG. 15

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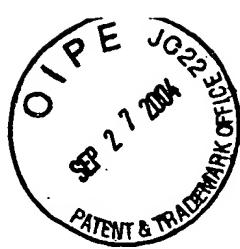


FIG.16

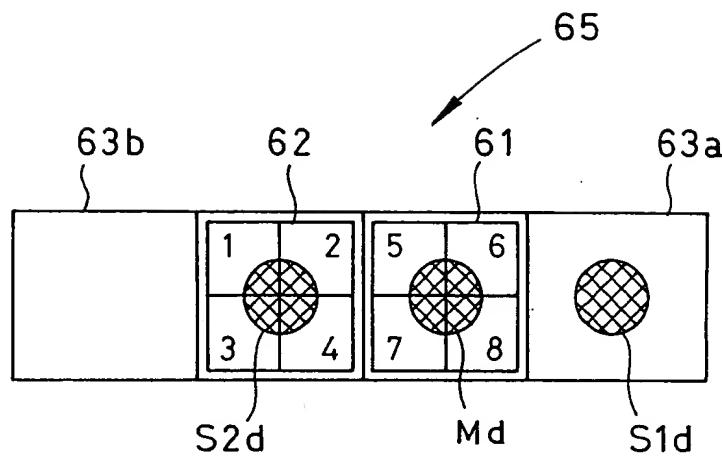


FIG.17

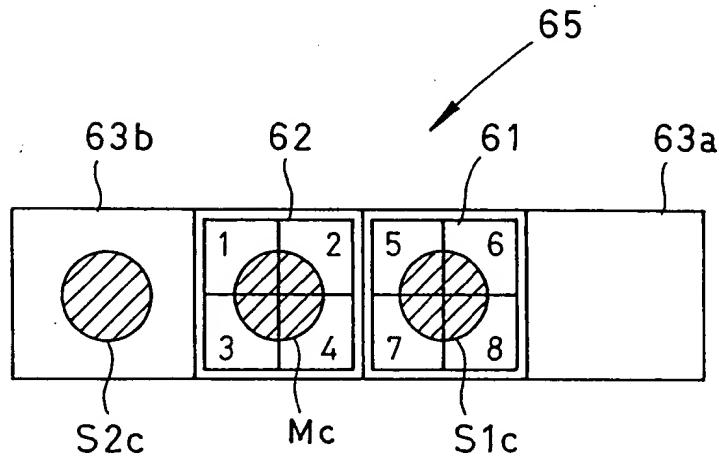
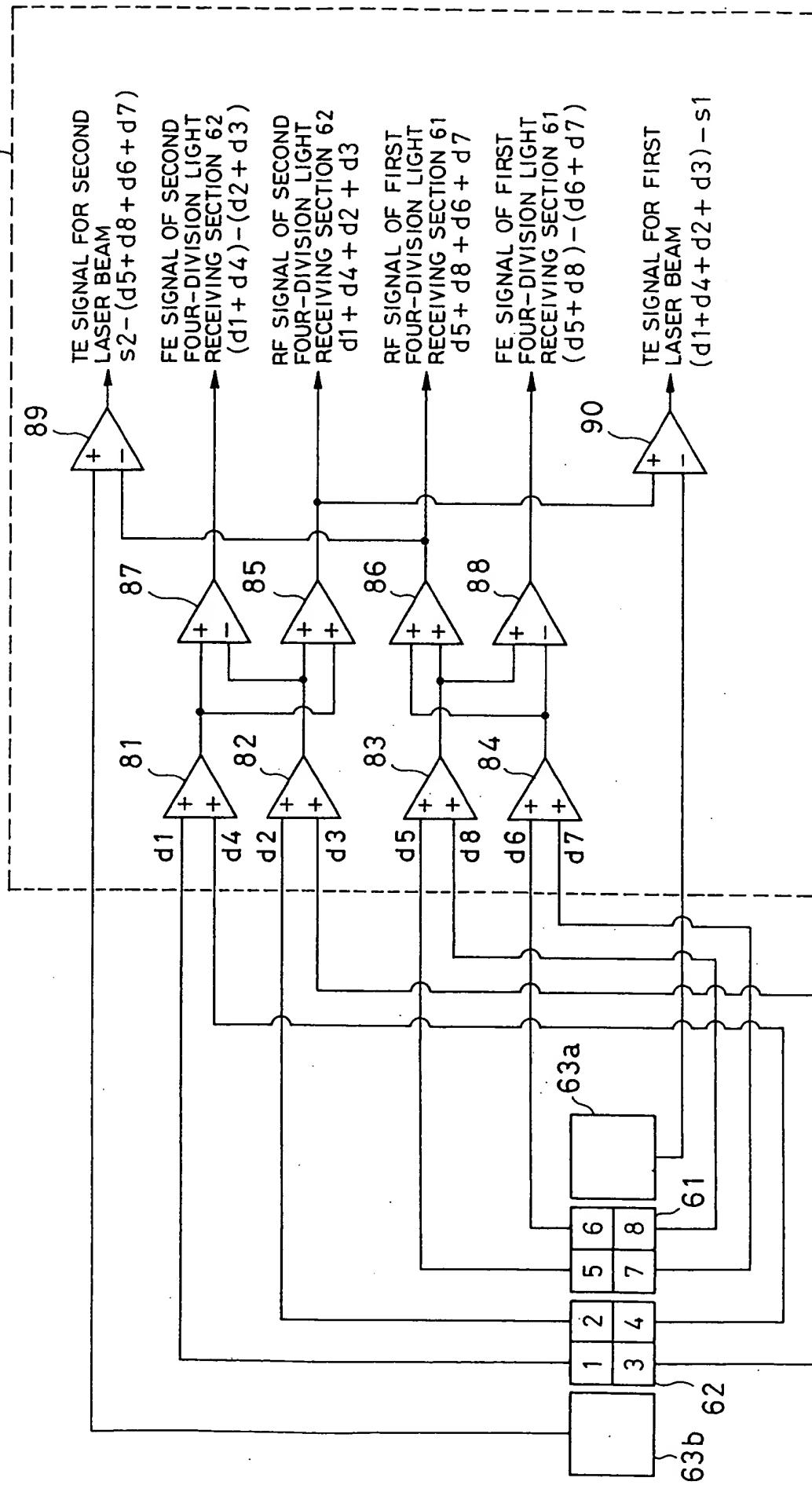


FIG.18

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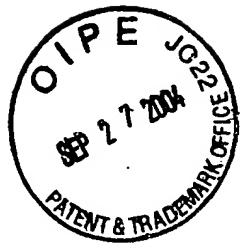


FIG.19

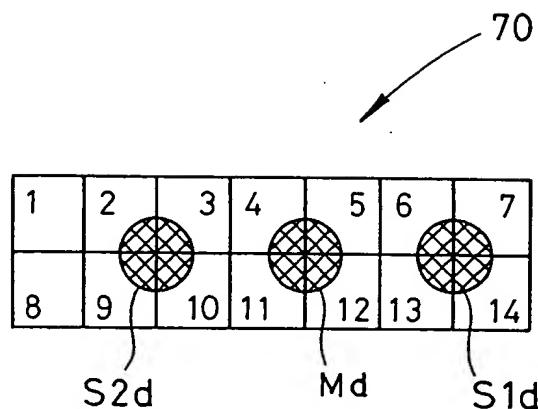


FIG.20

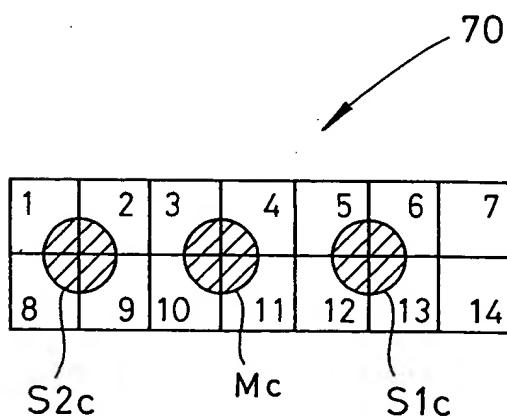




FIG.21

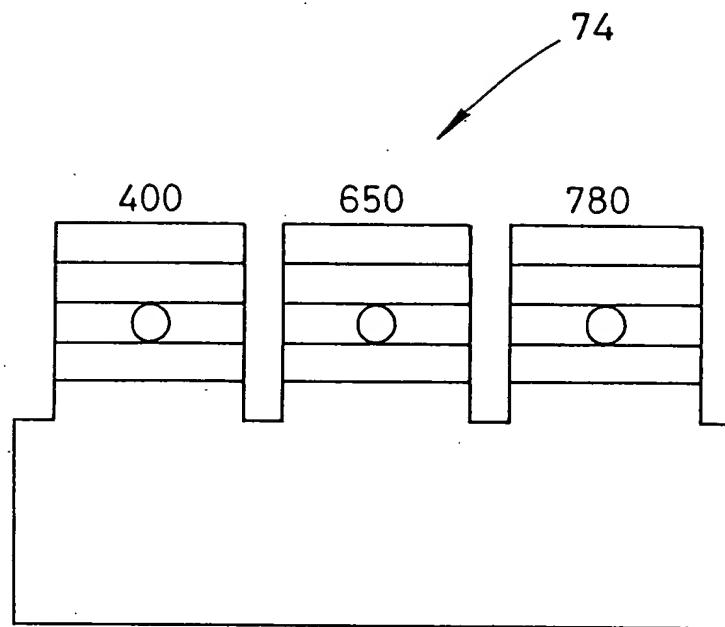


FIG.22

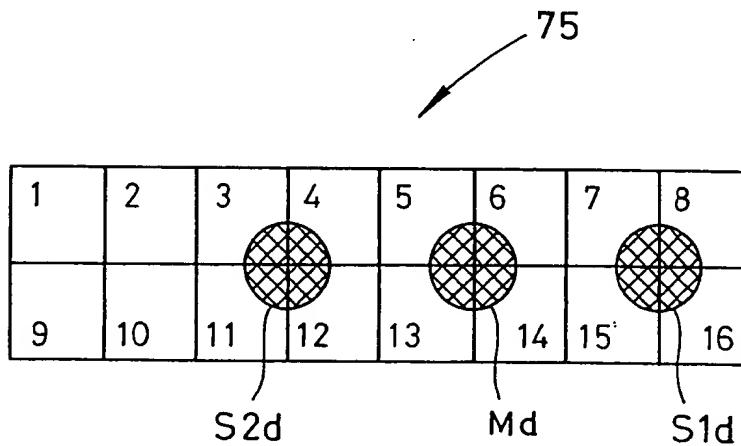




FIG. 23

